

Figure 1



Figure 2

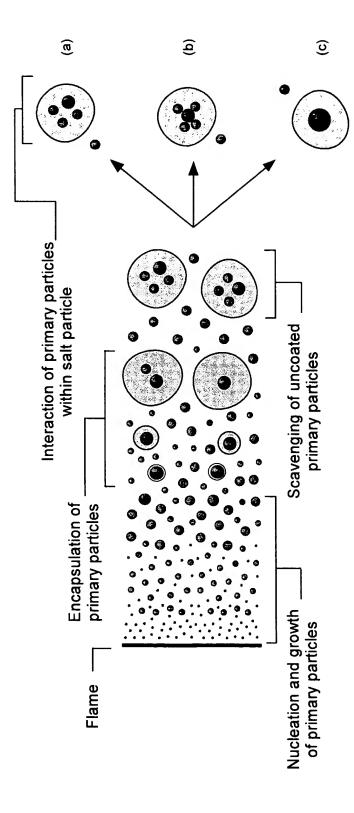
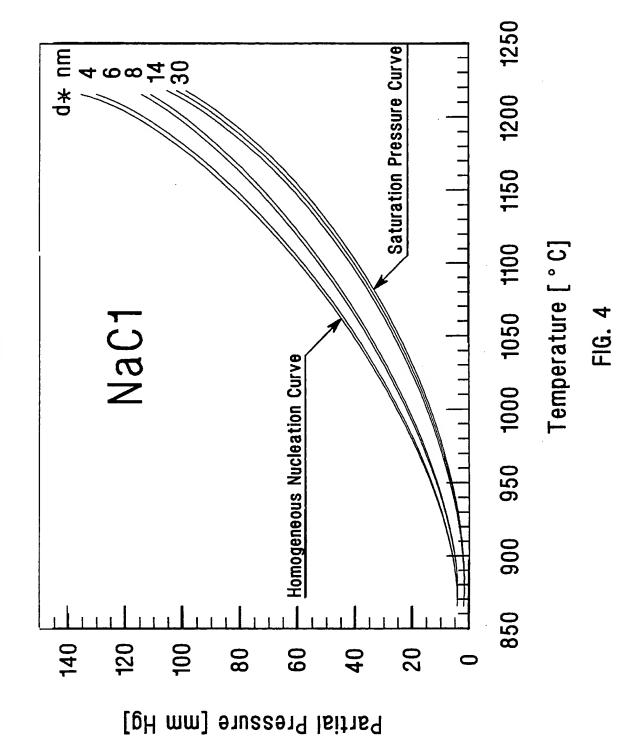
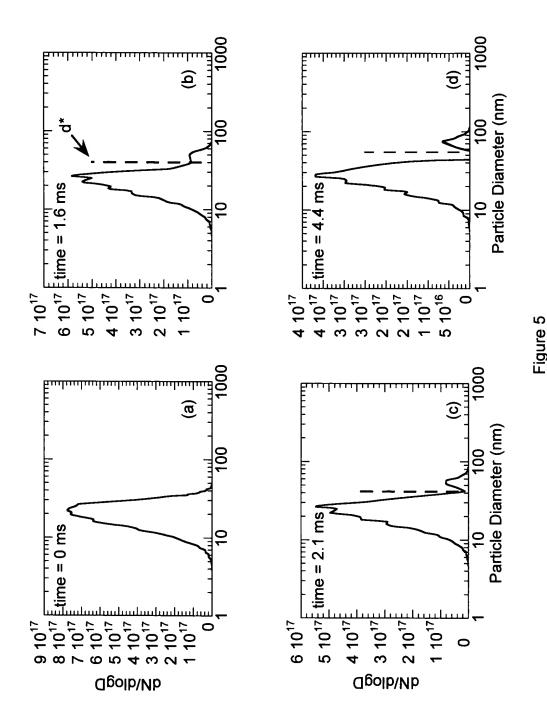


Figure 3





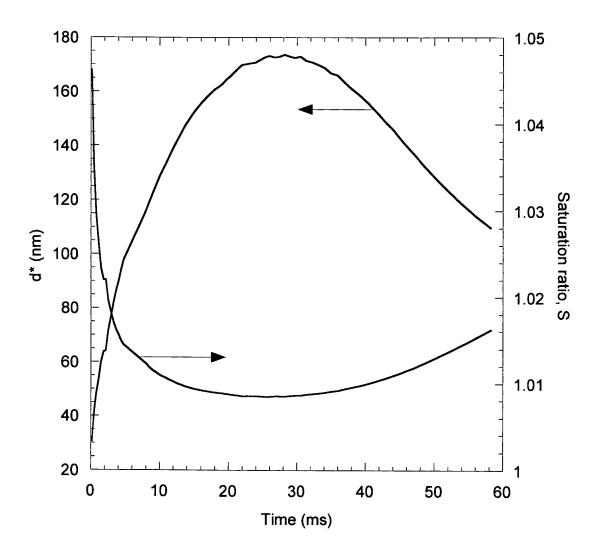


Figure 6

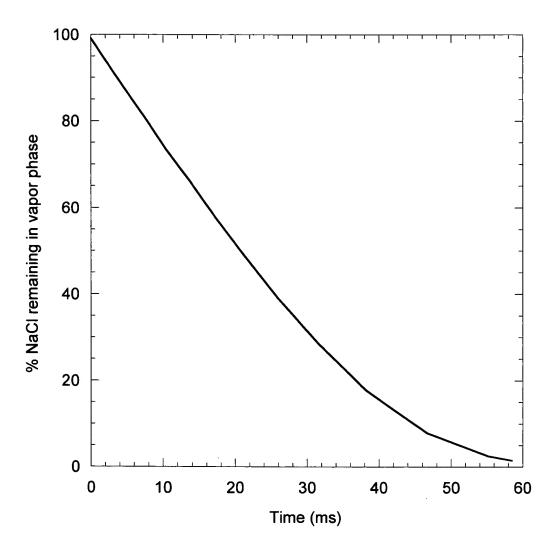
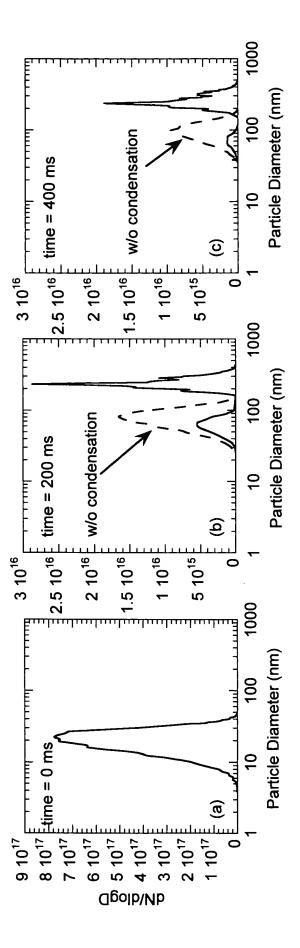


Figure 7



Figure

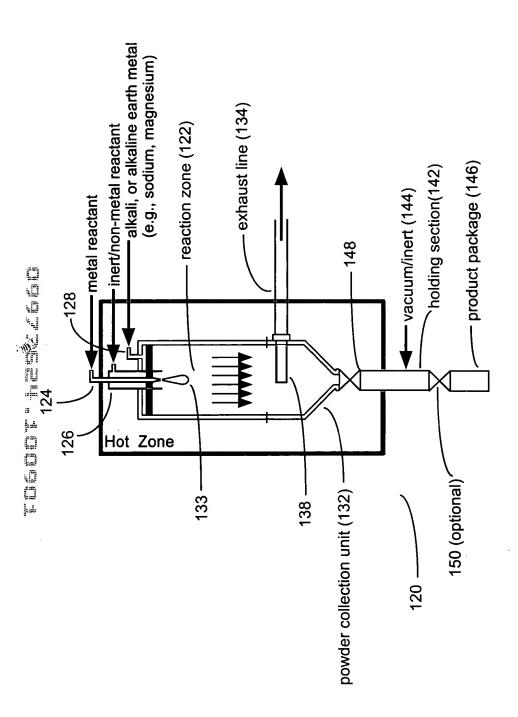


Figure 9

FIGURE 10

				700 2.16	900 2.16		810 2.16	810 2.16	810 2.16	810 2.16	900 2.16	900 2.16	900 2.16	900 2.16	900 2.16	900 0.51	900 0.51	900 0.51	_	837.5 0.51	843.5 0.51	750 0.51	787 5 0 51
Na Carrier (slpm Ar)	10.61	10.61	10.61	10.61	10.61	10.61	10.61	6.49	6.49	6.49	6.49	6.49	6.49	6.49	6.49	11.64	9.05	6.49	11.64	9.05	6.49	11.64	20.7
Liquid Na (g/min)	0.45	0.45	0.95	0.95	0.45	0.95	0.45	0.58	0.83	1.18	0.58	0.83	0.58	0.83	0.58	1.71	1.71	1.71	1.71	1.71	1.71	1.71	000
Inner Coflow (sccm Ar)	107.5	107.5	107.5	107.5	246.3	107.5	246.3	313.5	313.5	313.5	313.5	313.5	176.9	107.5	176.9	631.5	631.5	631.5	1097.2	631.5	631.5	631.5	9 700
TaCl ₅ Carrier (sccm Ar)	70.5	85.5	70.5	85.5	70.5	85.5	70.5	70.5	70.5	70.5	70.5	70.5	27.3	27.3	12.3	177.8	177.8	177.8	177.8	177.8	177.8	177.8	1.00
TaCl _s (g/min)	0.22	0.71	0.22	0.71	0.22	0.71	0.22	0.22	0.22	0.22	0.22	0.22	0.71	0.71	0.22	1.84	1.84	1.84	1.84	1.84	1.84	1.84	
Run Condition	Ta-1	Ta-2	Ta-3	Ta-4	Ta-5	Ta-6	Ta-13	Ta-14	Ta-15	Ta-16	Ta-17	Ta-18	Ta-20	Ta-21	Ta-22	Ta-23	Ta-24	Ta-25	Ta-26	Ta-27	Ta-28	Ta-29	

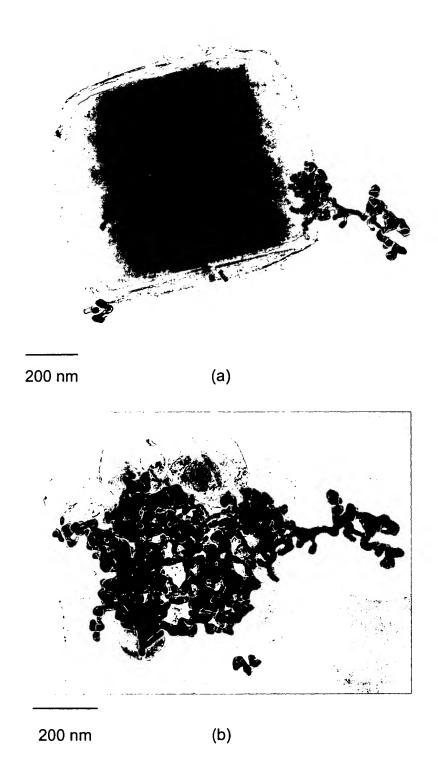


Figure 11

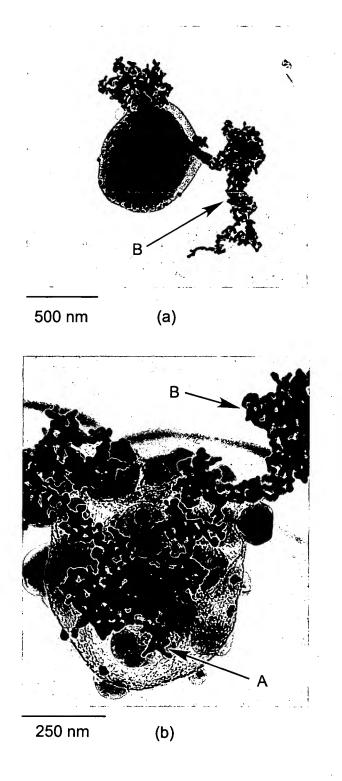
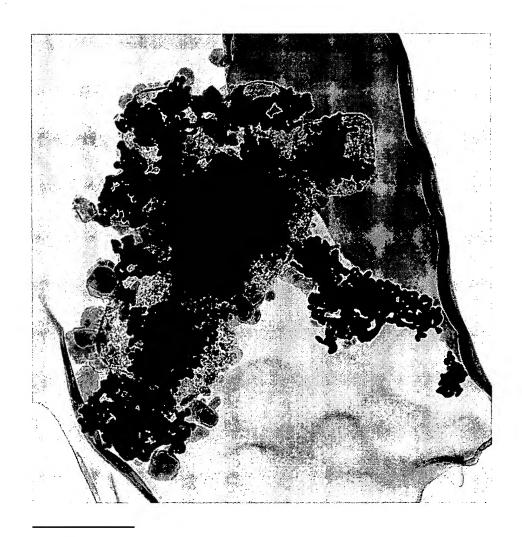


Figure 12



450 nm

Figure 13

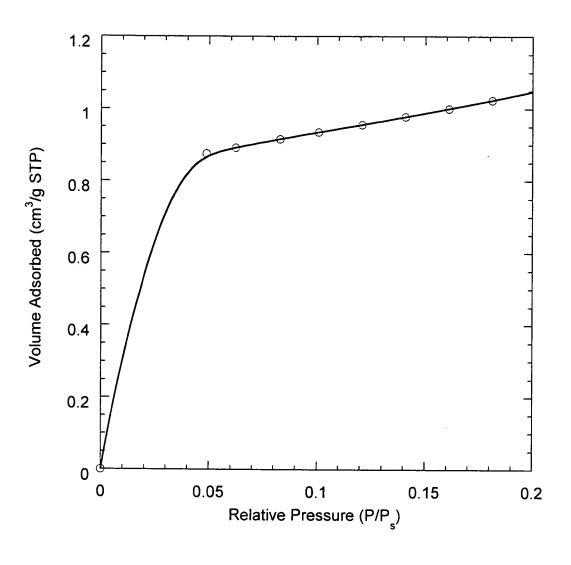


Figure 14

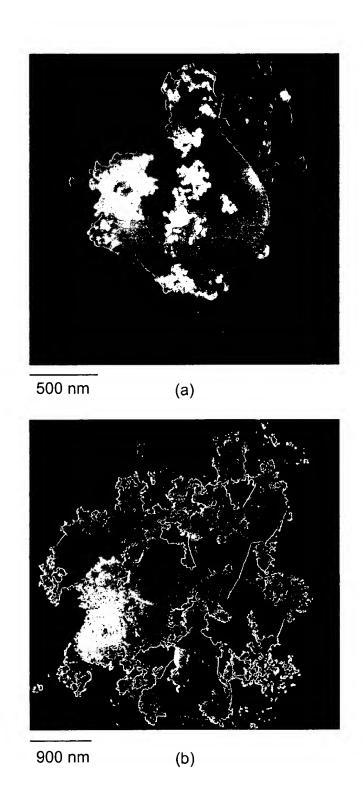


Figure 15

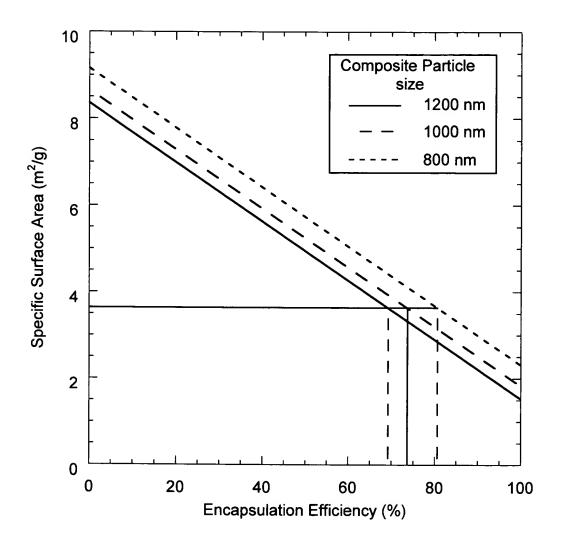


Figure 16